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2004年10月14日 (14.10.2004)

PCT

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WO 2004/087103 A1

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(21) 国際出願番号: PCT/JP2004/004412

(22) 国際出願日: 2004年3月29日 (29.03.2004)

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(26) 国際公開の言語: 日本語

(30) 優先権データ:  
特願2003-089485 2003年3月28日 (28.03.2003) JP  
特願2003-151876 2003年5月29日 (29.05.2003) JP  
特願2003-313808 2003年9月5日 (05.09.2003) JP

(71) 出願人(米国を除く全ての指定国について): ナノキャリア株式会社 (NANOCARRIER KABUSHIKI KAISHA) [JP/JP]; 〒2770882 千葉県柏市柏の葉5丁目4番地6 Chiba (JP).

(72) 発明者; および  
(75) 発明者/出願人(米国についてのみ): 片岡一則 (KATAOKA, Kazunori) [JP/JP]; 〒1650031 東京都中野区上鷺宮5-17-22 Tokyo (JP). 玉置泰裕 (TAMAKI, Yasuhiro) [JP/JP]; 〒1140024 東京都北区西ヶ原3-2-1-303 Tokyo (JP). 原田敦史 (HARADA, Atsushi) [JP/JP]; 〒5918023 大阪府堺市中百舌鳥町6-1034-6, 3-1413 Osaka (JP). 田坂文孝 (TASAKA, Fumitaka) [JP/JP]; 〒5750003 大阪府四条畷市岡山東3-2-11-205 Osaka (JP).

(81) 指定国(表示のない限り、全ての種類の国内保護が可能): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) 指定国(表示のない限り、全ての種類の広域保護が可能): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), ユーラシア (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), ヨーロッパ (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## 添付公開書類:

- 國際調査報告書
- 請求の範囲の補正の期限前の公開であり、補正書受領の際には再公開される。

2文字コード及び他の略語については、定期発行される各PCTガゼットの巻頭に掲載されている「コードと略語のガイドスノート」を参照。

(54) Title: OPHTHALMIC DRUG DELIVERY SYSTEM USING POLYMER MICELL

(54) 発明の名称: 高分子ミセルを用いた眼科用ドラッグデリバリーシステム

(57) Abstract: The current situation is such that it is difficult for drugs to reach posterior tissues of eyeball, such as choroid and retina, with the result that treating diseases in such regions is difficult. Thus, how to attain effective delivery of drugs is of importance. It has been found that effective delivery of drugs to posterior tissues of eyeball, such as choroid and retina, especially those wherein vascularization has occurred can be accomplished by systemic administration, especially intravenous administration of polymer microcells having a drug incorporated therein. Further, it has been found that when a photosensitive substance is used as a drug and PDT is carried out, choroidal neo-vessels can be effectively choked so as to be useful for the treatment of age-related macular degeneration.

(57) 要約: 脈絡膜や網膜等の後眼部組織には薬物が到達しにくく、それらの部位における疾患の治療は困難なのが現状であり、いかにして薬物を効果的に送達するかが課題である。本発明者らは、薬物を内包した高分子ミセルを全身投与、特に静脈投与することにより、薬物を脈絡膜、網膜等の後眼部組織、特に血管新生を発生したそれらの後眼部組織に効果的に送達できることを見出すと共に、薬物として光感受性物質を用いPDT施行すると脈絡膜新生血管を効果的に閉塞することができ、加齢黄斑変性の治療に有用であることを見出した。

WO 2004/087103 A1

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/004412

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> A61K9/107, 47/34, 47/42, 31/409, A61P27/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> A61K9/107, 47/34, 47/42, 31/409

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
CAPLUS/MEDLINE/EMBASE/BIOSIS (STN), JSTplus (JOIS)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2001-206885 A (Japan Science and Technology Corp.), 31 July, 2001 (31.07.01), Claims; examples; Par. Nos. [0008] to [0052] & EP 1253150 A1 & WO 01/55151 A1	1-25
Y	Shmidt-Erfurth, U. et al., Photodynamic Therapy With Verteporfin for Choroidal Neovascularization Caused by Age-related Macular Degeneration, ARCH. OPHTHALMOL., 1999, Vol.117, pages 1177 to 1187	1-25
Y	Wu, R.P. et al., INCORPORATION EFFICIENCY OF PORPHYRINS IN MICELLES., ABSTRACTS PAP.224TH ACS NATIONAL MEET., 2002, CHED-181	1-25

 Further documents are listed in the continuation of Box C. See patent family annex.

## \* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "Q" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search  
23 July, 2004 (23.07.04)Date of mailing of the international search report  
10 August, 2004 (10.08.04)Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/004412

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Masayuki YOKOYAMA, "Biryushi Carriel ni yoru Passive Targetting", Drug Delivery System, 1999, Vol.14, No.6, pages 449 to 457	1-25
A	Stapert, H.R. et al., Polyion Complex Micelles Encapsulating Light-Harvesting Ionic Dendrimer Zinc Porphyrins, Langmuir, 2000, Vol.16, pages 8182 to 8188	1-25

## PATENT COOPERATION TREATY

PCT

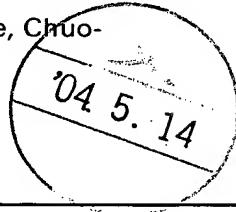
NOTIFICATION OF RECEIPT OF  
RECORD COPY

(PCT Rule 24.2(a))

From the INTERNATIONAL BUREAU

To:

HIBI, Norihiko  
c/o KISHIMOTO & CO. 3rd Floor,  
Inaba Building, 13-18,  
Nishishinsaibashi 1-chome, Chuo-  
ku, Osaka-shi  
Osaka  
5420086  
Japan



Date of mailing (day/month/year) 06 May 2004 (06.05.2004)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference R-61	International application No. PCT/JP2004/004412

The applicant is hereby notified that the International Bureau has received the record copy of the international application as detailed below.

Name(s) of the applicant(s) and State(s) for which they are applicants:

NANOCARRIER KABUSHIKI KAISHA (for all designated States except US)  
KATAOKA, Kazunori et al (for US)

International filing date : 29 March 2004 (29.03.2004)  
 Priority date(s) claimed : 28 March 2003 (28.03.2003)  
                                   29 May 2003 (29.05.2003)  
                                   05 September 2003 (05.09.2003)

Date of receipt of the record copy by the International Bureau : 15 April 2004 (15.04.2004)

List of designated Offices :

AP :BW,GH,GM,KE,LS,MW,MZ,SD,SL,SZ,TZ,UG,ZM,ZW  
 EA :AM,AZ,BY,KG,KZ,MD,RU,TJ,TM  
 EP :AT,BE,BG,CH,CY,CZ,DE,DK,EE,ES,FI,FR,GB,GR,HU,IE,IT,LU,MC,NL,PL,PT,RO,SE,SI,SK,  
 TR  
 OA :BF,BJ,CF,CG,CI,CM,GA,GN,GQ,GW,ML,MR,NE,SN,TD,TG  
 National :AE,AG,AL,AM,AT,AU,AZ,BA,BB,BG,BR,BW,BY,BZ,CA,CH,CN,CO,CR,CU,CZ,DE,DK,DM,  
 DZ,EC,EE,EG,ES,FI,GB,GD,GE,GH,GM,HR,HU,ID,IL,IN,IS,JP,KE,KG,KP,KR,KZ,LC,LK,LR,LS,  
 LT,LU,LV,MA,MD,MG,MK,MN,MW,MX,MZ,NA,NI,NO,NZ,OM,PG,PH,PL,PT,RO,RU,SC,SD,SE,SG,SK,  
 SL,SY,TJ,TM,TN,TR,TT,TZ,UA,UG,US,UZ,VC,VN,YU,ZA,ZM,ZW

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland  Facsimile No. (41-22) 338.90.90	Authorized officer:  Elisabeth SASON (Fax 338 9090)  Telephone No. (41-22) 338 9915
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## Continuation of Form PCT/IB/301

## NOTIFICATION OF RECEIPT OF RECORD COPY

Date of mailing (day/month/year) 06 May 2004 (06.05.2004)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference R-61	International application No. PCT/JP2004/004412

**ATTENTION**

The applicant should carefully check the data appearing in this Notification. In case of any discrepancy between these data and the indications in the international application, the applicant should immediately inform the International Bureau.

In addition, the applicant's attention is drawn to the information contained in the Annex, relating to:

time limits for entry into the national phase - see updated important information (as of April 2002)  
 requirements regarding priority documents (if applicable)

A copy of this Notification is being sent to the receiving Office and to the International Searching Authority.

## INFORMATION ON TIME LIMITS FOR ENTERING THE NATIONAL PHASE

The applicant is reminded that the "national phase" must be entered before each of the designated Offices indicated on the cover sheet of this Notification by paying national fees and furnishing translations, as prescribed by Articles 22 and 39 and the applicable national laws. In addition, the applicant may also have to comply with other special requirements applicable in certain Offices. It is the applicant's responsibility to ensure the necessary steps to enter the national phase are taken in a timely fashion. Most Offices do not issue reminders to applicants in connection with the entry into the national phase.

The applicable time limit for entering the national phase will, subject to what is said in the following paragraph, be 30 MONTHS from the priority date, not only in respect of any elected Office if a demand for international preliminary examination is filed before the expiration of 19 months from the priority date (see Article 39(1)), but also in respect of any designated Office, in the absence of filing of such demand, where Article 22(1) as modified with effect from 1 April 2002 applies in respect of that designated Office. For further details, see PCT Gazette No. 44/2001 of 1 November 2001, pages 19926, 19932 and 19934, as well as the PCT Newsletter, October and November 2001 and February 2002 issues.

In practice, time limits other than the 30-month time limit will continue to apply, for various periods of time, in respect of certain designated or elected Offices. For regular updates on the applicable time limits (20, 21, 30 or 31 months, or other time limit), Office by Office, refer to the PCT Gazette ("Section IV" part published on a weekly basis), to the PCT Newsletter (on a monthly basis) and to the relevant National Chapters in Volume II of the PCT Applicant's Guide (the paper version of which is updated usually twice a year and the Internet version of which is updated usually on a weekly basis). Finally, a cumulative table of all applicable time limits for entering the national phase is available from WIPO's Internet site, via links from various pages the site including those of the Gazette, Newsletter and Guide, at <http://www.wipo.int/pct/en/index.html>.

Information about the requirements for filing a demand for international preliminary examination is set out in the PCT Applicant's Guide, Volume I/A, Chapter IX. Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination (at present, all PCT Contracting States are bound by Chapter II).

## REQUIREMENTS REGARDING PRIORITY DOCUMENTS

For applicants who have not yet complied with the requirements regarding priority documents, the following is recalled.

Where the priority of an earlier national, regional or international application is claimed, the applicant must submit a copy of the said earlier application, certified by the authority with which it was filed ("the priority document") to the receiving Office (which will transmit it to the International Bureau) or directly to the International Bureau, before the expiration of 16 months from the priority date, provided that any such priority document may still be submitted to the International Bureau before that date of international publication of the international application, in which case that document will be considered to have been received by the International Bureau on the last day of the 16-month time limit (Rule 17.1(a)).

Where the priority document is issued by the receiving Office, the applicant may, instead of submitting the priority document, request the receiving Office to prepare and transmit the priority document to the International Bureau. Such request must be made before the expiration of the 16-month time limit and may be subjected by the receiving Office to the payment of a fee (Rule 17.1(b)).

If the priority document concerned is not submitted to the International Bureau or if the request to the receiving Office to prepare and transmit the priority document has not been made (and the corresponding fee, if any, paid) within the applicable time limit indicated under the preceding paragraphs, any designated State may disregard the priority claim, provided that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within the time limit which is reasonable under the circumstances (Rule 17.1(c)).

Where several priorities are claimed, the priority date to be considered for the purposes of computing the 16-month time limit (and all other PCT time limits) is the filing date of the earliest application whose priority is claimed (Article 2(xi)(b)).

## PATENT COOPERATION TREATY

PCT

NOTIFICATION CONCERNING  
SUBMISSION OR TRANSMITTAL  
OF PRIORITY DOCUMENT

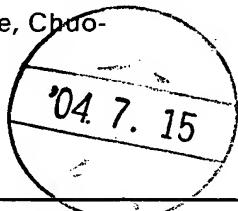
(PCT Administrative Instructions, Section 411)

Date of mailing (day/month/year)
07 July 2004 (07.07.2004)

From the INTERNATIONAL BUREAU

To:

HIBI, Norihiko  
c/o KISHIMOTO & CO. 3rd Floor,  
Inaba Building, 13-18,  
Nishishinsaibashi 1-chome, Chuo-  
ku, Osaka-shi  
Osaka  
5420086  
Japan



Applicant's or agent's file reference R-61	<b>IMPORTANT NOTIFICATION</b>	
International application No. PCT/JP2004/004412	International filing date (day/month/year) 29 March 2004 (29.03.2004)	
International publication date (day/month/year) Not yet published	Priority date (day/month/year) 28 March 2003 (28.03.2003)	
Applicant NANOCARRIER KABUSHIKI KAISHA et al		

1. By means of this Form, which replaces any previously issued notification concerning submission or transmittal of priority documents, the applicant is hereby notified of the date of receipt by the International Bureau of the priority document(s) relating to all earlier application(s) whose priority is claimed. Unless otherwise indicated by the letters "NR", in the right-hand column or by an asterisk appearing next to a date of receipt, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
2. (If applicable) The letters "NR" appearing in the right-hand column denote a priority document which, on the date of mailing of this Form, had not yet been received by the International Bureau under Rule 17.1(a) or (b). Where, under Rule 17.1(a), the priority document must be submitted by the applicant to the receiving Office or the International Bureau, but the applicant fails to submit the priority document within the applicable time limit under that Rule, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
3. (If applicable) An asterisk(\*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b) (the priority document was received after the time limit prescribed in Rule 17.1(a) or the request to prepare and transmit the priority document was submitted to the receiving Office after the applicable time limit under Rule 17.1(b)). Even though the priority document was not furnished in compliance with Rule 17.1(a) or (b), the International Bureau will nevertheless transmit a copy of the document to the designated Offices, for their consideration. In case such a copy is not accepted by the designated Office as priority document, Rule 17.1(c) provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

<u>Priority date</u>	<u>Priority application No.</u>	<u>Country or regional Office or PCT receiving Office</u>	<u>Date of receipt of priority document</u>
28 Marc 2003 (28.03.2003)	2003-089485	JP	24 June 2004 (24.06.2004)
29 May 2003 (29.05.2003)	2003-151876	JP	24 June 2004 (24.06.2004)
05 Sept 2003 (05.09.2003)	2003-313808	JP	24 June 2004 (24.06.2004)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 338.90.90	Authorized officer taïeb AKREMI (Fax 338 9090) Telephone No. (41-22) 338 9415
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PATENT COOPERATION TREATY

PCT

NOTIFICATION OF WITHDRAWAL OF  
INTERNATIONAL APPLICATION OR  
DESIGNATIONS

(PCT Rule 90bis.1 and 90bis.2 and  
Administrative Instructions, Section 415(a))

Date of mailing (day/month/year)
09 July 2004 (09.07.2004)

Applicant's or agent's file reference
R-61

IMPORTANT NOTIFICATION

International application No.	International filing date (day/month/year)	Priority date (day/month/year)
PCT/JP2004/004412	29 March 2004 (29.03.2004)	28 March 2003 (28.03.2003)
Applicant NANOCARRIER KABUSHIKI KAISHA		

1. The applicant is hereby notified that, except as to any designated State in which national processing or examination has already started upon the express request of the applicant:

the international application  
 the designations of the following States:  
 for an ARIPO patent (specify "all States" or, if the withdrawal concerns only some States, specify those States only by indicating the two-letter country codes):  
 for a Eurasian patent  
 for a European patent (specify "all States" or, if the withdrawal concerns only some States, specify those States only by indicating the two-letter country codes):  
 for an OAPI patent  
 for a national patent (specify the States by indicating the two-letter country codes):

JP

has (have) been withdrawn on the date of receipt of the notice effecting withdrawal as indicated below:

26 April 2004 (26.04.2004).

2. The notice effecting withdrawal reached the International Bureau

before the completion of the technical preparations for publication and, consequently, there will be no international publication:  
 of the international application.  
 of the designations specified above.  
 after the completion of the technical preparations for publication and, consequently, the withdrawal could not be taken into account for the international publication.

3. The receiving Office and, if they are affected by the withdrawal, the designated (or elected) Offices, the International Searching Authority and the International Preliminary Examining Authority, have been informed accordingly.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer PETRESKA Gorica
Facsimile No. (41-22) 338.90.90	Telephone No. (41-22) 338.99.99

From the INTERNATIONAL BUREAU

## PCT

FIRST NOTICE INFORMING THE APPLICANT OF  
THE COMMUNICATION OF THE INTERNATIONAL  
APPLICATION (TO DESIGNATED OFFICES WHICH  
DO NOT APPLY THE 30 MONTH TIME LIMIT  
UNDER ARTICLE 22(1))

(PCT Rule 47.1(c))

Date of mailing (day/month/year)  
28 October 2004 (28.10.2004)

To:

HIBI, Norihiko  
c/o KISHIMOTO & CO. 3rd Floor, Inaba Building, 13-18,  
Nishishinsaibashi 1-chome, Chuo-ku, Osaka-shi  
Osaka  
5420086  
JAPON



Applicant's or agent's file reference  
R-61

## IMPORTANT NOTICE

International application No.  
PCT/JP2004/004412

International filing date (day/month/year)  
29 March 2004 (29.03.2004)

Priority date (day/month/year)  
28 March 2003 (28.03.2003)

Applicant

NANOCARRIER KABUSHIKI KAISHA et al

1. **ATTENTION:** For any designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002 (30 months from the priority date), **does apply**, please see Form PCT/IB/308(Second and Supplementary Notice) (to be issued promptly after the expiration of 28 months from the priority date).
2. Notice is hereby given that the following designated Office(s), for which the time limit under Article 22(1), as in force from 1 April 2002, **does not apply**, has/have requested that the communication of the international application, as provided for in Article 20, be effected under Rule 93bis.1. The International Bureau has effected that communication on the date indicated below:  
14 October 2004 (14.10.2004)

CH

In accordance with Rule 47.1(c-bis)(i), those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

3. The following designated Offices, for which the time limit under Article 22(1), as in force from 1 April 2002, **does not apply**, have not requested, as at the time of mailing of the present notice, that the communication of the international application be effected under Rule 93bis.1:

FI, LU, SE, TZ, UG, ZM

In accordance with Rule 47.1(c-bis)(ii), those Offices accept the present notice as conclusive evidence that the Contracting State for which that Office acts as a designated Office does not require the furnishing, under Article 22, by the applicant of a copy of the international application.

## 4. TIME LIMITS for entry into the national phase

For the designated Office(s) listed above, and unless a demand for international preliminary examination has been filed before the expiration of 19 months from the priority date (see Article 39(1)), the applicable time limit for entering the national phase will, **subject to what is said in the following paragraph**, be 20 MONTHS from the priority date.

In practice, **time limits other than the 20-month time limit** will continue to apply, for various periods of time, in respect of certain of the designated Offices listed above. For **regular updates on the applicable time limits** (20 or 21 months, or other time limit), Office by Office, refer to the *PCT Gazette*, the *PCT Newsletter* and the *PCT Applicant's Guide*, Volume II, National Chapters, all available from WIPO's Internet site, at <http://www.wipo.int/pct/en/index.html>.

It is the applicant's **sole responsibility** to monitor all these time limits.

The International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

Authorized officer

Yoshiko Kuwahara

Facsimile No.+41 22 740 14 35

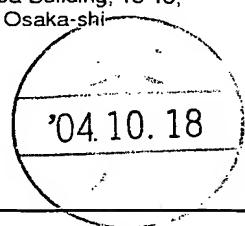
Facsimile No.+41 22 338 90 90

From the INTERNATIONAL BUREAU

## PCT

NOTIFICATION CONCERNING  
TRANSMITTAL OF COPY OF INTERNATIONAL  
APPLICATION AS PUBLISHED OR REPUBLISHEDDate of mailing (day/month/year)  
14 October 2004 (14.10.2004)

To:

HIBI, Norihiko  
c/o KISHIMOTO & CO. 3rd Floor, Inaba Building, 13-18,  
Nishishinsaibashi 1-chome, Chuo-ku, Osaka-shi  
Osaka  
5420086  
JAPONApplicant's or agent's file reference  
R-61

## IMPORTANT NOTICE

International application No.  
PCT/JP2004/004412International filing date (day/month/year)  
29 March 2004 (29.03.2004)Priority date (day/month/year)  
28 March 2003 (28.03.2003)

Applicant

NANOCARRIER KABUSHIKI KAISHA et al

The International Bureau transmits herewith the following documents:

 copy of the international application as published by the International Bureau on 14 October 2004 (14.10.2004) under  
No. WO 2004/087103 copy of international application as republished by the International Bureau on under  
No. WO

For an explanation as to the reason for this republication of the international application, reference is made to INID codes (15), (48) or (88) (as the case may be) on the front page of the attached document.

The International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

Authorized officer

Yoshiko Kuwahara

Facsimile No.+41 22 740 14 35

Facsimile No.+41 22 338 90 90